# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 08/01/2018 12:49 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 05/12/2018 04:21 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80291 | Expiration Date: | 02/29/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125951 | 0 | 2.29 | 125985 | 2.33 |
| Blue | F | SSC | 125000 | 123030 | -2 | 1.66 | 123703 | 1.66 |
| Blue | E | FITC | 15760 | 15421 | -3 | 2.97 | 334 | 22.52 |
| Blue | D | PE | 25880 | 25183 | -3 | 1.97 | 548 | 17.15 |
| Blue | B | PerCP-Cy5-5 | 34075 | 33959 | -1 | 4.22 | 1039 | 22.93 |
| Blue | A | PE-Cy7 | 22776 | 23203 | 1 | 7.35 | 558 | 45.68 |
| Red | C | APC | 42488 | 41406 | -3 | 2.69 | 1564 | 13.36 |
| Red | A | APC-Cy7 | 24478 | 24126 | -2 | 2.83 | 830 | 13.01 |
| Violet | B | V450 | 6304 | 6152 | -3 | 4.14 | 347 | 17.58 |
| Violet | A | V500 | 26005 | 25325 | -3 | 3.76 | 592 | 13.37 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21036 | 10.76 | 610 | 13 | N/A | N/A | Pass |
| Blue | F | SSC | 55997 | 1.17 | 577 | 22 | N/A | N/A | Pass |
| Blue | E | FITC | 59 | 70.60 | 564 | 8 | 0.0149 | 111 | Pass |
| Blue | D | PE | 114 | 58.57 | 557 | 8 | 0.1186 | 278 | Pass |
| Blue | B | PerCP-Cy5-5 | 196 | 56.53 | 658 | 11 | 0.0072 | 86 | Pass |
| Blue | A | PE-Cy7 | 108 | 113.60 | 713 | 16 | 0.0089 | 26 | Pass |
| Red | C | APC | 369 | 28.31 | 602 | 2 | 0.0198 | 144 | Pass |
| Red | A | APC-Cy7 | 204 | 28.61 | 574 | 3 | 0.0047 | 955 | Pass |
| Violet | B | V450 | 57 | 77.78 | 498 | 9 | 0.0262 | 2176 | Pass |
| Violet | A | V500 | 89 | 42.14 | 515 | 9 | 0.0117 | 561 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 08/01/2018 12:49 PM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.45 | -30.90 | 0.94 |
| Blue | 20.36 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.41 |
| Red | 15.94 | 13.60 - 20.40 | N/A | N/A | 30.57 | 31.28 | 1.20 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10818

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments